FAST FY 2018 Data Call: A Preliminary Review

Ron Stewart

March 2019



The INL is a U.S. Department of Energy National Laboratory operated by Battelle Energy Alliance

FAST FY 2018 Data Call: A Preliminary Review

Ron Stewart

March 2019

Idaho National Laboratory Idaho Falls, Idaho 83415

http://www.inl.gov

Prepared for the
U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy, Office of Nuclear Energy
Under DOE Idaho Operations Office
Contract DE-AC07-05ID14517, DE-AC07-05ID14517

Idaho National Laboratory

FAST FY 2018 Data Call: A Preliminary Review

INTERFUEL – March 2019

Ron Stewart FAST Team Lead Idaho National Laboratory



Topics

- Status of FY 2018 fleet data submission
- Overview of the fleet
- This year's review process



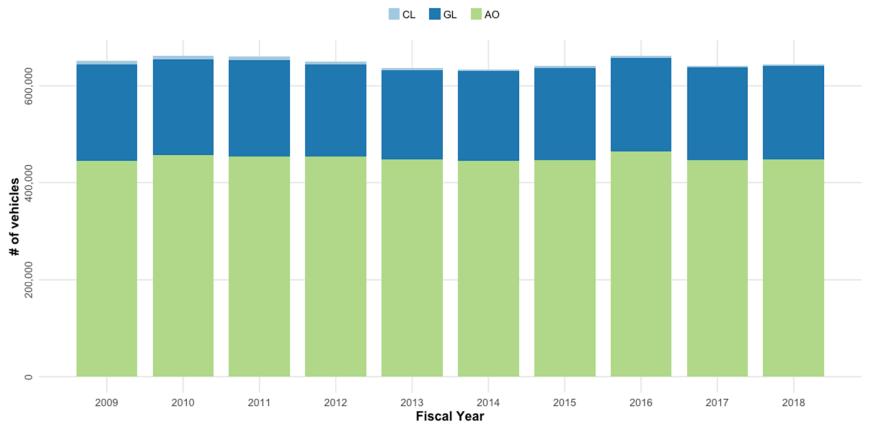
Status of FY 2018 Submission

- All reporting agencies submitted vehicle-level data for FY 2018
 - 40 of 50 reported VLD in FY 2017
- 48 reporting agencies
 - 3 agencies finishing review & corrections
 - All other agencies' submissions considered final
- Caveat: All data shown here is preliminary!
 - Current as of 2019-03-06
 - Will change before considered final



Federal Vehicle Inventory

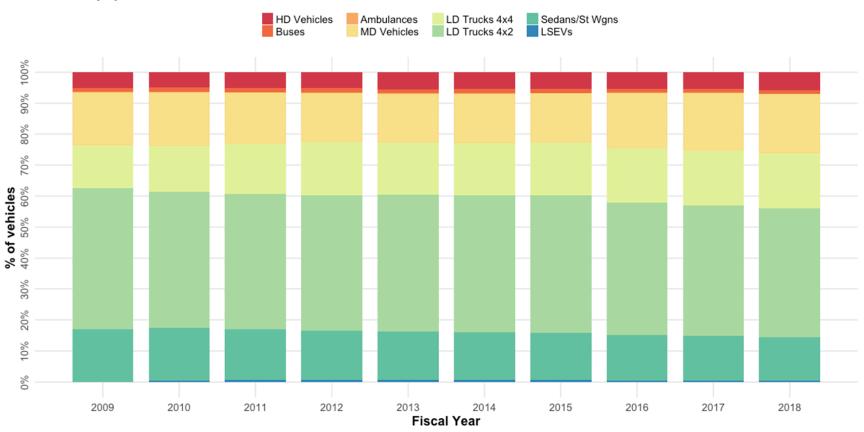
Inventory by Fiscal Year and Ownership





Federal Vehicle Inventory

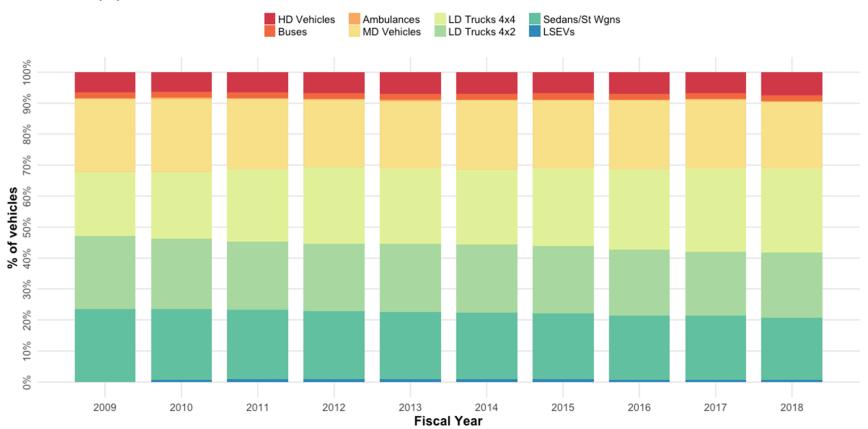
% Inventory by Fiscal Year and Vehicle Class





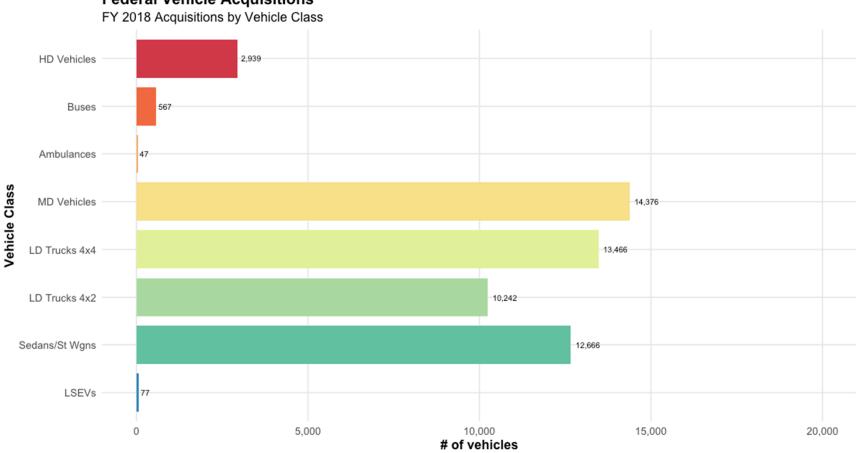
Federal Vehicle Inventory (excluding USPS)

% Inventory by Fiscal Year and Vehicle Class



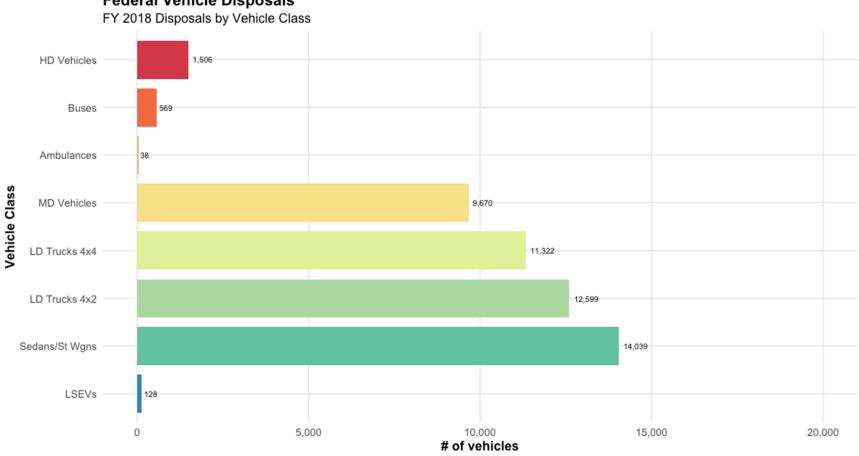


Federal Vehicle Acquisitions





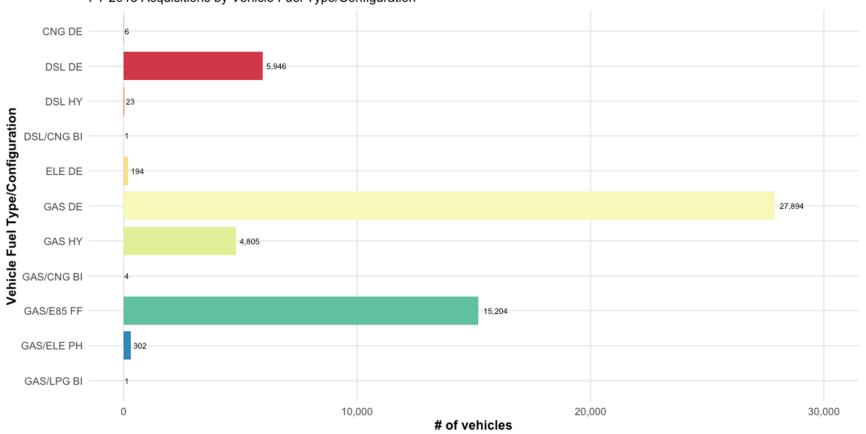
Federal Vehicle Disposals





Federal Vehicle Acquisitions

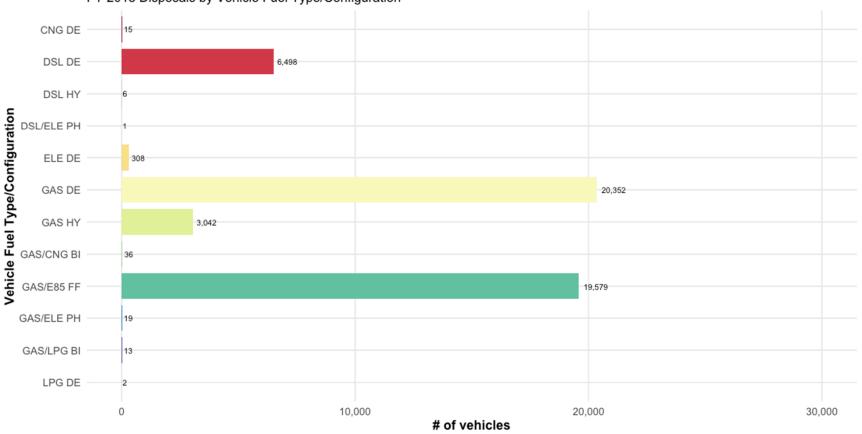






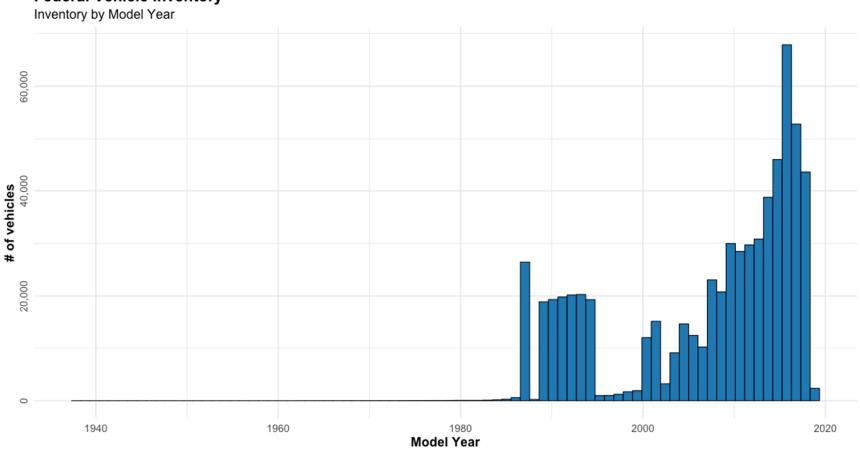
Federal Vehicle Disposals





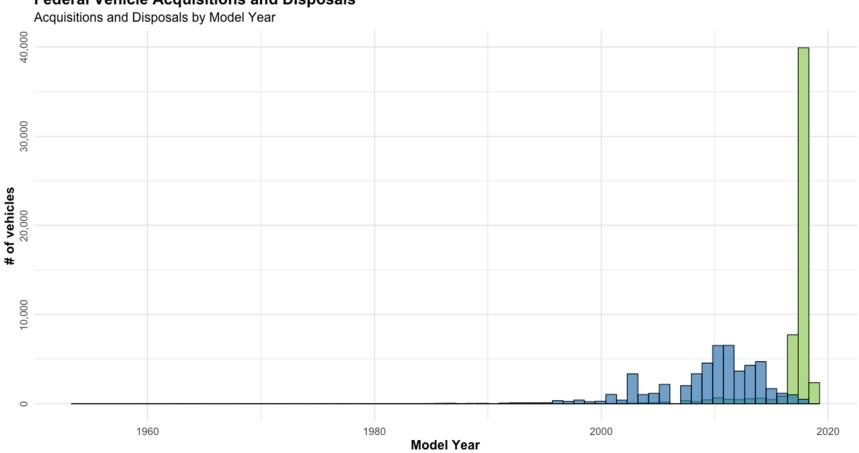


Federal Vehicle Inventory

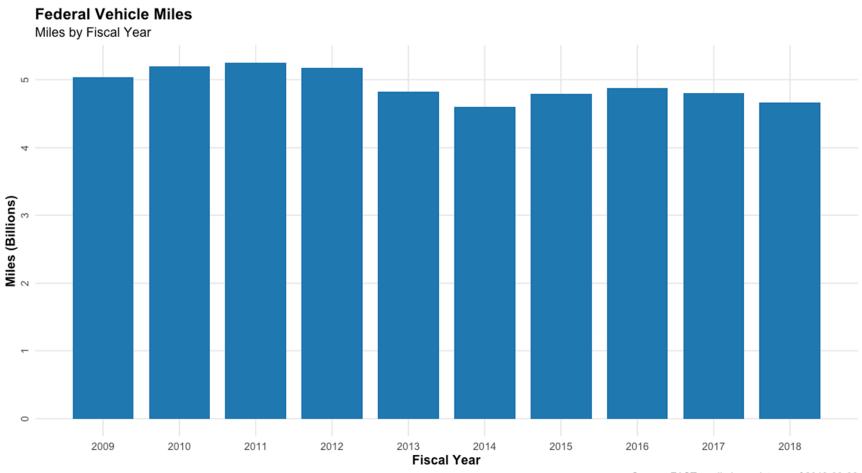




Federal Vehicle Acquisitions and Disposals



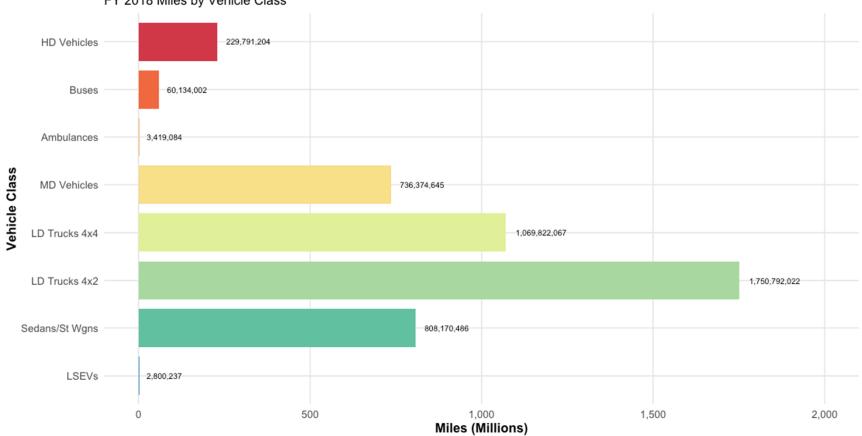






Federal Vehicle Miles

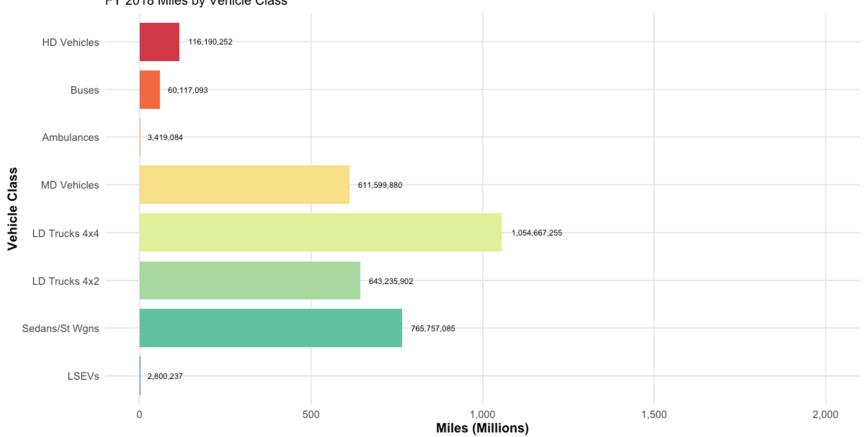






Federal Vehicle Miles (excluding USPS)

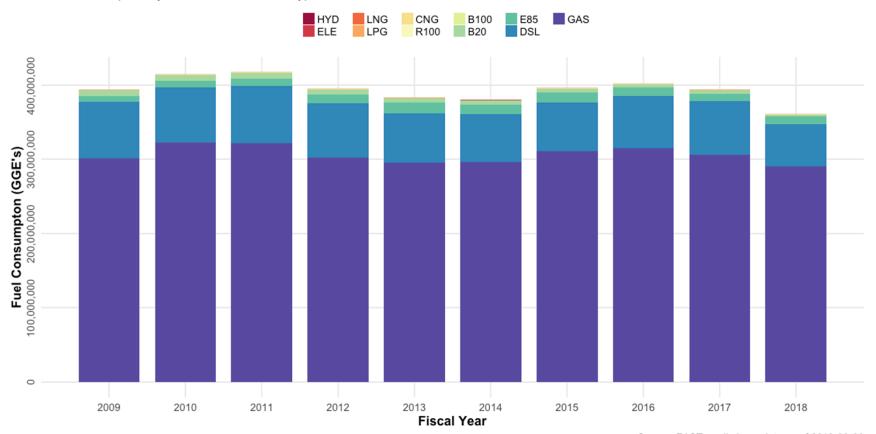






Federal Vehicle Fuel Consumption

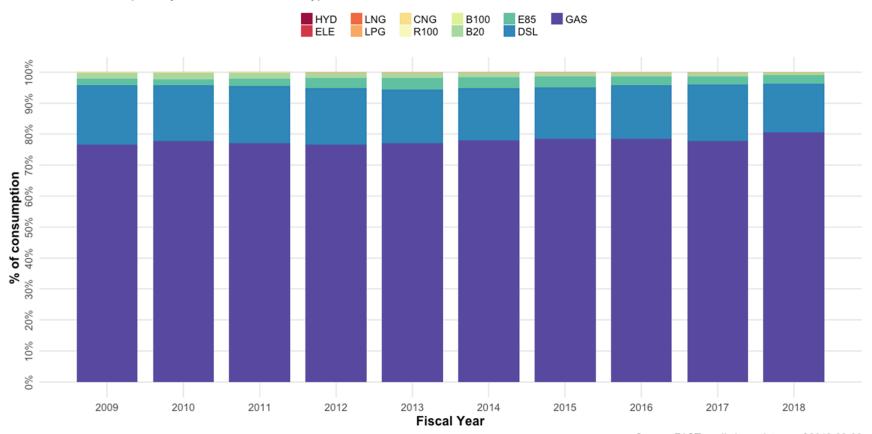
Fuel Consumption by Fiscal Year and Fuel Type





Federal Vehicle Fuel Consumption

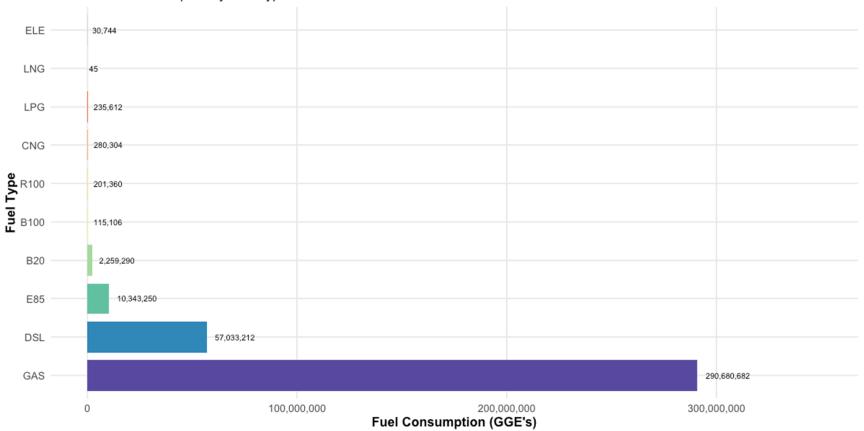
% Fuel Consumption by Fiscal Year and Fuel Type





Federal Vehicle Fuel Consumption

FY 2018 Fuel Consumption by Fuel Type





New Review Process

- With recent move to VLD, significant external interest in fleet data
 - "How good is the data?"
- New review process implemented this year
 - Identify potential issues in agency submissions
 - Communicate those to reporting agency
 - Agency reviews and responds
 - Corrects, where feasible
 - Assemble and summarize review/response/corrections
- FAST management team has basis for...
 - Answering that "How good is it?" question
 - Tracking improvement in future years



New Review Process: Dashboard



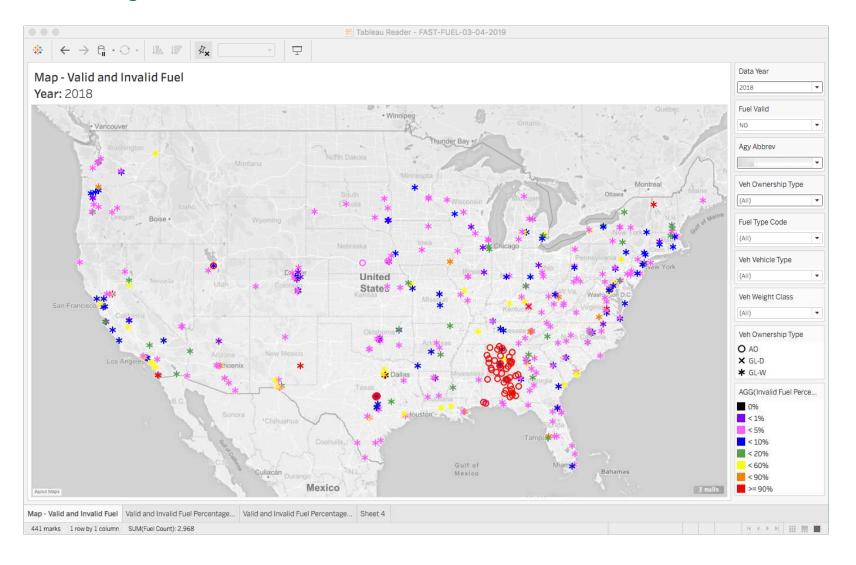


New Review Process: Areas of Concern

- Incomplete response to review feedback
- Changing vehicle ID's from year to year
 - Only half of non-USPS vehicles from prior year carry identical vehicle ID
- Measure 6: # of vehicles with invalid high fuel efficiencies
- Measure 7: year-to-year consistency of reporting
 - b) # of vehicles reported in current year but missing from prior year (40K)
 - d) # of vehicles reported in prior year inventory but missing from current year (28K)
 - e) # of vehicles with changes to "immutable" attributes (224K of 554K; 40.3%)
- Measure 8: # of vehicles with placeholders for 1+ attributes
 - ~20,400 vehicles with 28,500 placeholders
- Vehicles with invalid fuel type consumption

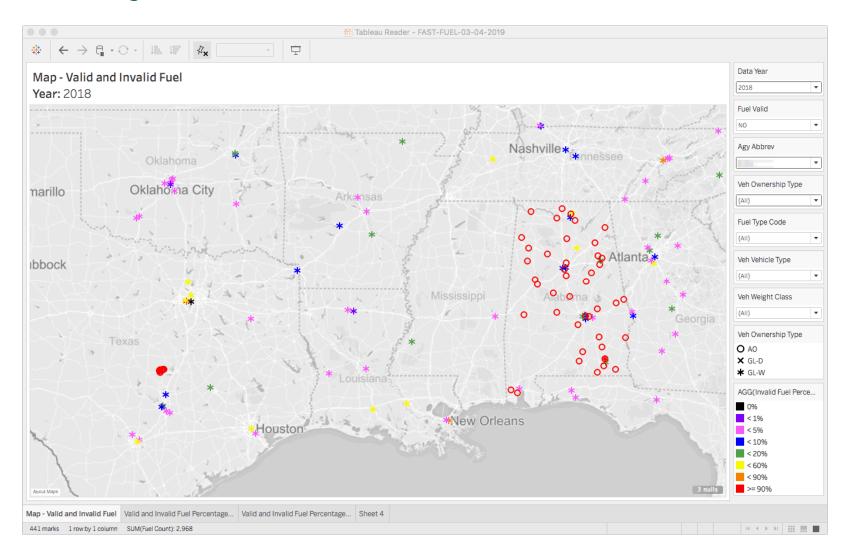


New ways to look at fleet information...



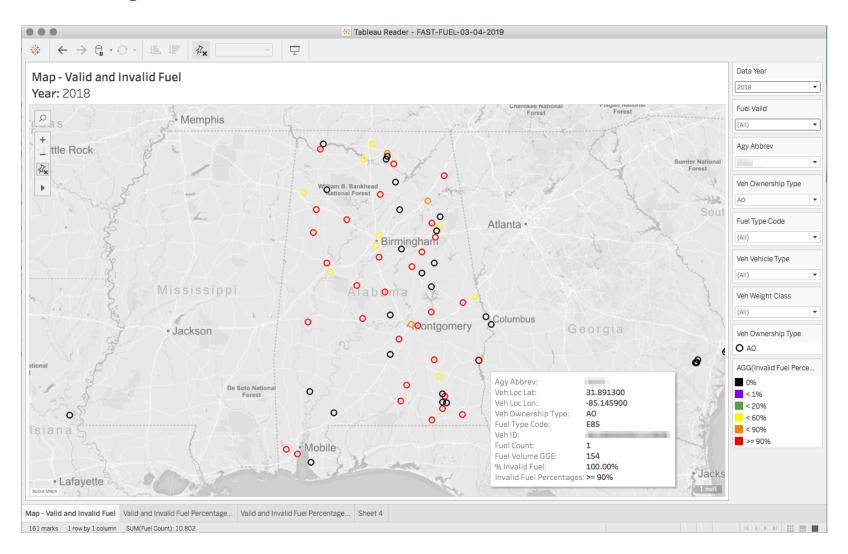


New ways to look at fleet information...





New ways to look at fleet information...





Interested in more?



April 9-11, 2019 – Washington, DC



FAST Program Contact Information

- DOE Federal Energy Management Program
 - Brad Gustafson (brad.gustafson@ee.doe.gov)
- GSA Office of Government-wide Policy
 - Jim Vogelsinger (james.vogelsinger@gsa.gov)
 - Patrick McConnell (patrick.mcconnell@gsa.gov)
- EIA Office of Energy Consumption & Efficiency Statistics
 - Cynthia Sirk (cynthia.sirk@eia.gov)
- INL FAST Team
 - Michelle Kirby (michelle.kirby@inl.gov)
 - Ron Stewart (ron.stewart@inl.gov)
 - Tim Raczek (tim.raczek@inl.gov)
 - Twitter: @FASTdevs